

**SYSTEM AND ASSOCIATED SUPPRESSION ASSEMBLY FOR LIMITING  
ELECTROMAGNETIC EMISSIONS IN NETWORK DEVICES  
COMMUNICATING VIA A NETWORK BUS**

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**ABSTRACT OF THE DISCLOSURE**

A network system includes a network having a network bus, such as unshielded differential twisted-pair wires, electrically connected to a plurality of remote devices, and a network controller for digitally directing transmissions with the remote devices via the network bus. The network system also includes a plurality of network device interface elements adapted to interconnect the network controller with respective remote devices via the network bus. Each network device interface element is capable of transmitting and receiving messages via the network bus. And to at least partially limit electromagnetic emissions from the respective network device interface element and/or the respective remote device, each network device interface element includes a suppression assembly. Additionally, each network device interface element can include a transceiver and a processing element, with the suppression assembly electrically connected between the transceiver and the network bus.

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